

Datasheet for ABIN3087162

## GRAF Protein (AA 1-814) (Strep Tag)



[Go to Product page](#)

### Overview

Quantity:	250 µg
Target:	GRAF (ARHGAP26)
Protein Characteristics:	AA 1-814
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRAF protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MGLPALEFSD CCLDSPHFRE TLKSHEAELD KTNKFIKELI KDGKSLISAL KNLSSAKRKF</p> <p>ADSLNEFKFQ CIGDAETDDE MCIARSLQEF ATVLRNLEDE RIRMIENASE VLITPLEKFR</p> <p>KEQIGAAKEA KKKYDKETEK YCGILEKHLN LSSKKKESQL QEADSQVDLV RQHFYEVSLE</p> <p>YVFKVQEVQE RKMFEFVEPL LAFLQGLFTF YHHGYELAKD FGDFKTQLTI SIQNTRNRFE</p> <p>GTRSEVESLM KKMKENPLEH KTISPYTMEG YLYVQEKRFH GTSWVKHYCT YQRDSKQITM</p> <p>VFPDQKSGGK GGEDEVILK SCTRRKTDSE EKRFCFDVEA VDRPGVITMQ ALSEEDRRLW</p> <p>MEAMDGREPV YNSNKDSQSE GTAQLDSIGF SIIRKCIHAV ETRGINEQGL YRIVGVNSRV</p> <p>QKLLSVLMDP KTASETETDI CAWEIKTIT SALKTYLRML PGPLMMYQFQ RSFIKAAKLE</p> <p>NQESRVSEIH SLVHRLPEKN RQMLQLLMNH LANVANNHKQ NLMTVANLGV VFGPTLLRPQ</p> <p>EETVAAIMDI KFNQIVIEIL IENHEKIFNT VPDMLPTNAQ LHLSRKSSD SKPPSCSERP</p> <p>LTLFHTVQST EKQEQRNSII NSSLESVSSN PNSILNSSSS LQPNMNSSDP DLAVVKPTRP</p>

NSLPNPSPST SPLSPSWPMF SAPSSPMPTS STSSDSSPVR SVAGFVWFSV AAVVLSLARS  
SLHAVFSLLV NFVPCHPNLH LLFDRPEEAV HEDSSTPFRK AKALYACKAE HDSELSFTAG  
TVFDNVHPSQ EPGWLEGTLN GKTGLIPENY VEFL

**Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression

## Product Details

	System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

Target:	GRAF (ARHGAP26)
Alternative Name:	ARHGAP26 ( <a href="#">ARHGAP26 Products</a> )
Background:	Rho GTPase-activating protein 26 (GTPase regulator associated with focal adhesion kinase) (GRAF1) (Oligophrenin-1-like protein) (Rho-type GTPase-activating protein 26),FUNCTION: GTPase-activating protein for RHOA and CDC42. {ECO:0000250 UniProtKB:Q5ZMW5},. FUNCTION: [Isoform 2]: Associates with MICAL1 on the endosomal membrane to promote Rab8-Rab10-dependent tubule extension. After dissociation of MICAL1, recruits WDR44 which connects the endoplasmic reticulum (ER) with the endosomal tubule, thereby participating in the export of a subset of neosynthesized proteins. {ECO:0000269 PubMed:32344433}.
Molecular Weight:	92.2 kDa
UniProt:	<a href="#">Q9UNA1</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!</p>
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months